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SPACE OPERATIONS CONTROL CENTER SATELLITE SITUATION REPORT

VOL. 3, NO. 15

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JULY 31, 1983



GODDARD SPACE FLIGHT CENTER

GREENBELT, MD.

SPACE OPERATIONS CONTROL CENTER
GODDARD SPACE FLIGHT CENTER
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

VOLUME 3 NO. 15

JULY 31, 1963

SATELLITE SITUATION REPORT

THE FOLLOWING REPORT REFLECTS DATA COMPUTED AND COMPILED BY THE
GODDARD SPACE FLIGHT CENTER, NORAD, AND SMITHSONIAN ASTROPHYSICAL
OBSERVATORY AS OF 1200Z ON JULY 31, 1963.

OBJECT	CODE NAME	SOURCE	LAUNCH	NODAL PERIOD	INCLI-NATION	OBJECTS IN ORBIT		TRANSMITTING FREQ. (MC/S)	
						APOGEE Km.	PERIGEE Km.		
1958 LAUNCHES									
ALPHA 1	EXPLORER 1	US	1 FEB	104.9	33.19	1649	350	108.023 &	
BETA 1	ROCKET BODY	US	17 MAR	138.3	34.25	4336	641		
BETA 2	VANGUARD 1	US	17 MAR	133.8	34.24	3924	664		
1959 LAUNCHES									
ALPHA 1	VANGUARD 2	US	17 FEB	125.3	32.88	3284	562	0.9766AU 0.9871AU	
ALPHA 2	ROCKET BODY	US	17 FEB	129.5	32.91	3643	576		
ETA 1	VANGUARD 3	US	18 SEP	129.7	33.35	3718	513		
MU 1*	LUNIK 1	USSR	2 JAN	450 D	0.01	1.315AU	0.9766AU		
NU 1*	PIONEER 4	US	3 MAR	398 D	1.30	1.142AU	0.9871AU		
IOTA 1	EXPLORER 7	US	13 OCT	101.1	50.31	1076	551		
IOTA 2	ROCKET BODY	US	13 OCT	100.9	50.30	1074	534		
1960 LAUNCHES									
ALPHA 1*	PIONEER 5	US	11 MAR	312 D	3.35	0.995 AU	0.8061AU	0.8061AU	
BETA 1	ROCKET BODY	US	1 APR	99.0	48.35	737	697		
BETA 2	TIROS 1	US	1 APR	99.1	48.35	738	702		
BETA 3	NONE	US	1 APR	97.8	48.47	673	643		
BETA 4	NONE	US	1 APR	99.8	48.14	819	689		
GAMMA 2	TRANSIT 1B	US	13 APR	94.2	51.25	598	364		
GAMMA 4	NONE	US	13 APR	96.7	51.26	736	473		
EPSILON 3	NONE	USSR	15 MAY	92.0	64.97	486	257		
ZETA 1	MIDAS 2	US	24 MAY	94.2	33.05	506	467		
ETA 1	TRANSIT 2A	US	22 JUN	101.6	66.69	1051	620		
ETA 2	GREB	US	22 JUN	101.6	66.69	1050	619		
ETA 3	ROCKET BODY	US	22 JUN	101.4	66.66	1026	623		
IOTA 1	ECHO 1	US	12 AUG	115.0	47.28	1890	1027		
IOTA 2	ROCKET BODY	US	12 AUG	118.0	47.23	1679	1509		
IOTA 3	METAL OBJECT	US	12 AUG	118.2	47.22	1686	1517		
IOTA 4	METAL OBJECT	US	12 AUG	INSUFFICIENT OBSERVATIONS					1549
IOTA 5	METAL OBJECT	US	12 AUG	118.3	47.28	1671			

OBJECT	OBJECTS IN ORBIT					PERIGEE Km.	TRANSMITTING FREQ. (MC/S)
	CODE NAME	SOURCE	LAUNCH	NODAL PERIOD	INCLI- NATION		
1960 LAUNCHES							
NU 1	COURIER 1B	US	4 OCT	106.9	28.36	1204	975
NU 2	ROCKET BODY	US	4 OCT	106.4	28.27	1198	937
XI 1	EXPLORER 8	US	3 NOV	112.3	49.80	2272	403
XI 2	ROCKET BODY	US	3 NOV	112.0	49.96	2217	424
XI 3	NONE	US	3 NOV	109.8	49.38	2045	396
XI 4	NONE	US	3 NOV	110.8	50.52	2114	421
PI 1	TIROS 2	US	23 NOV	98.2	48.48	743	606
PI 2	ROCKET BODY	US	23 NOV	98.0	48.49	694	643
PI 3	NONE	US	23 NOV	98.1	48.51	705	637
PI 4	NONE	US	23 NOV	98.2	48.50	743	612
1961 LAUNCHES							
ALPHA 1	SAMOS 2	US	31 JAN	94.8	97.44	546	467
ALPHA 2	METAL OBJECT	US	31 JAN	94.7	97.44	548	459
GAMMA 1*	VENUS PROBE	USSR	12 FEB	300 D	0.58	1.019AU	0.7183AU
DELTA 1	EXPLORER 9	US	16 FEB	116.3	38.92	2552	486
DELTA 2	ROCKET BODY	US	16 FEB	118.4	38.85	2609	624
DELTA 3	NONE	US	16 FEB	INSUFFICIENT OBSERVATIONS			
KAPPA 1	EXPLORER 10	US	25 MAR	POSITION UNCERTAIN			
NU 1	EXPLORER 11	US	27 APR	107.8	28.83	1776	493
OMICRON 1	TRANSIT 4A	US	29 JUN	103.8	66.80	992	886
OMICRON 2	INJUN-SR-3	US	29 JUN	103.8	66.81	994	886
OMICRON 3-186**	METAL OBJECTS	US	29 JUN				
RHO 1	TIROS 3	US	12 JUL	100.3	47.88	814	742
RHO 2	ROCKET BODY	US	12 JUL	100.3	47.89	805	745
RHO 3	METAL OBJECT	US	12 JUL	98.8	47.93	806	601
RHO 4	METAL OBJECT	US	12 JUL	101.9	47.84	928	779
SIGMA 1	MIDAS 3	US	12 JUL	161.5	91.25	3501	3389
SIGMA 3	METAL OBJECT	US	12 JUL	161.2	91.20	3544	3318
SIGMA 4	METAL OBJECT	US	12 JUL	161.9	91.22	3557	3365
UPSILON 1	EXPLORER 12	US	16 AUG	INSUFFICIENT OBSERVATIONS			
A DELTA 1	MIDAS 4	US	21 OCT	166.0	95.89	3691	3561

OBJECT	OBJECTS IN ORBIT					PERIGEE Km.	TRANSMITTING FREQ. (MC/S)
	CODE NAME	SOURCE	LAUNCH	NODAL PERIOD	INCLI- NATION		
1961 LAUNCHES							
A DELTA 3	METAL OBJECT	US	21 OCT	165.6	95.84	3712	3507
A DELTA 4	METAL OBJECT	US	21 OCT	166.4	95.97	3772	3508
A ETA 1	TRANSIT 4B	US	15 NOV	105.6	32.44	1127	935
A ETA 2	TRAAC	US	15 NOV	105.6	32.44	1115	949
A ETA 3	ROCKET BODY	US	15 NOV	105.5	32.43	1103	946
1962 LAUNCHES							
ALPHA 1*	RANGER 3	US	26 JAN	406.4D	.3988	1.163AU	0.9839AU
ALPHA 2	ROCKET BODY	US	26 JAN	INSUFFICIENT OBSERVATIONS			
BETA 1	TIROS 4	US	8 FEB	100.3	48.29	840	712
BETA 2	ROCKET BODY	US	8 FEB	101.3	48.12	943	703
BETA 3	METAL OBJECT	US	8 FEB	99.4	48.42	768	699
BETA 4	METAL OBJECT	US	8 FEB	100.2	48.30	828	719
ZETA 1	ORB. SOL. OBS. 1	US	7 MAR	95.9	32.83	575	564
ZETA 2	ROCKET BODY	US	7 MAR	95.9	32.82	593	549
IOTA 1	COSMOS 2	USSR	6 APR	90.4	48.94	409	186
KAPPA 1		US	9 APR	153.0	86.71	3367	2828
KAPPA 3		US	9 APR	152.7	86.65	3369	2795
KAPPA 4		US	9 APR	153.4	86.64	3420	2804
MU 2	ROCKET BODY	US	23 APR	INSUFFICIENT OBSERVATIONS			
OMICRON 1	ARIEL	US/UK	26 APR	100.6	53.87	1185	396
OMICRON 2	ROCKET BODY	US/UK	26 APR	100.6	53.85	1182	394
SIGMA 1		US	15 MAY	91.7	82.33	441	267
OMEGA 1		US	18 JUN	90.9	82.13	319	312
A ALPHA 1	TIROS 5	US	19 JUN	100.4	58.10	955	607
A ALPHA 2	ROCKET BODY	US	19 JUN	100.4	58.10	946	609
A ALPHA 3	METAL OBJECT	US	19 JUN	101.7	58.21	1077	606
A ALPHA 4	METAL OBJECT	US	19 JUN	99.1	58.02	838	595
A EPSILON 1	TELSTAR 1	US	10 JUL	157.7	44.79	5629	957
A EPSILON 2	ROCKET BODY	US	10 JUL	157.5	44.79	5615	957
							136.233; 136.923

OBJECTS IN ORBIT

<u>OBJECT</u>	<u>CODE NAME</u>	<u>SOURCE</u>	<u>LAUNCH</u>	<u>NODAL PERIOD</u>	<u>INCLINATION</u>	<u>APOGEE Km.</u>	<u>PERIGEE Km.</u>	<u>TRANSMITTING FREQ. (MC/S)</u>
1962 LAUNCHES								
A XI 1	COSMOS 8	USSR	18 AUG	89.3	48.94	272	216	
A OMICRON 1		US	23 AUG	99.6	98.66	858	615	
A OMICRON 2		US	23 AUG	98.3	98.65	752	599	
A OMICRON 3		US	23 AUG	100.9	98.67	968	626	
A OMICRON 4		US	23 AUG	99.6	98.66	850	621	
A RHO 1*	MARINER 2	US	27 AUG	348 D	1.66	1.229AU	0.7046AU	
A RHO 2	ROCKET BODY	US	27 AUG					
A UPSILON 1		US	1 SEP	93.2	82.81	574	283	
A PSI 1	TIROS 6	US	18 SEP	98.7	58.30	714	683	136.233;136.921
A PSI 2	ROCKET BODY	US	18 SEP	98.7	58.30	708	683	
A PSI 3	METAL OBJECT	US	18 SEP	99.4	58.43	762	697	
A PSI 4	METAL OBJECT	US	18 SEP	98.0	58.21	690	640	
B ALPHA 1	ALOUETTE	CANADA	29 SEP	105.5	80.46	1032	1001	136.978;136.590 \$136.080
B ALPHA 2	ROCKET BODY	US	29 SEP	105.5	80.48	1030	998	
B ALPHA 3	METAL OBJECT	US	29 SEP	105.4	80.54	1027	995	
B ALPHA 4	METAL OBJECT	US	29 SEP	105.5	80.46	1038	995	
B GAMMA 1	EXPLORER 14	US	2 OCT	2184.9	40.00	97053	1745	136.440
B GAMMA 2	ROCKET BODY	US	2 OCT	INSUFFICIENT OBSERVATIONS				
B ETA 1	RANGER 5	US	18 OCT	366 D	.39011	1.052AU	0.9490AU	
B ETA 2	ROCKET BODY	US	18 OCT					
B THETA 1		USSR	20 OCT	93.9	48.96	695	240	
B KAPPA 1		US	26 OCT	142.2	71.43	5053	233	
B LAMBDA 1	EXPLORER 15	US	27 OCT	314.1	17.98	17574	308	
B LAMBDA 2	ROCKET BODY	US	27 OCT	INSUFFICIENT OBSERVATIONS				
B MU 1	ANNA 1B	US	31 OCT	107.8	50.14	1173	1087	162;324
B MU 2	ROCKET BODY	US	31 OCT	107.5	50.14	1170	1062	
B NU 3		USSR	1 NOV	519 D	2.683	1.604AU	.9237AU	
B TAU 1		US	13 DEC	113.9	70.37	2568	239	
B TAU 2	INJUN 3	US	13 DEC	115.0	70.36	2663	244	\$136.868
B TAU 4		US	13 DEC	112.6	70.46	2444	247	
B TAU 5		US	13 DEC	113.8	70.36	2563	238	
B TAU 6		US	13 DEC	114.7	70.36	2635	245	
B UPSILON 1	RELAY 1	US	13 DEC	185.0	47.52	7443	1317	136.140;136.620

OBJECTS IN ORBIT

<u>OBJECT</u>	<u>CODE NAME</u>	<u>SOURCE</u>	<u>LAUNCH</u>	<u>NODAL PERIOD</u>	<u>INCLI-NATION</u>	<u>APOGEE Km.</u>	<u>PERIGEE Km.</u>	<u>TRANSMITTING FREQ. (MC/S)</u>
1962 LAUNCHES								
B UPSILON 2	ROCKET BODY	US	13 DEC	184.8	47.52	7436	1307	
B CHI 1	EXPLORER 16	US	16 DEC	104.3	52.00	1176	754	\$136.860; \$136.200
B PSI 1	TRANSIT 5A	US	19 DEC	99.2	90.62	741	689	
B PSI 2		US	19 DEC	97.9	90.71	744	565	
B PSI 3		US	19 DEC	99.1	90.62	729	700	
B PSI 4		US	19 DEC	100.3	90.45	845	693	
1963 LAUNCHES								
1963 3A		US	16 JAN	94.6	81.88	537	458	
1963 3B		US	16 JAN	93.6	81.88	463	415	
1963 3C		US	15 JAN	93.9	81.88	498	425	
1963 4A	SYNCOM	US	14 FEB	1426.4	33.51	37815	34182	
1963 4B	ROCKET BODY	US	14 FEB	602.6	33.12	34281	248	
1963 5A		US	19 FEB	97.8	100.48	793	507	
1963 5B		US	19 FEB	97.8	100.48	790	509	
1963 5C		US	19 FEB	97.1	100.49	756	476	
1963 5D		US	19 FEB	98.4	100.47	832	532	
1963 8B		USSR	2 APR	INSUFFICIENT OBSERVATIONS				
1963 9A	EXPLORER 17	US	3 APR	96.0	57.61	871	266	
1963 9B	ROCKET BODY	US	3 APR	94.1	57.61	682	274	
1963 10A		USSR	13 APR	90.1	48.87	328	240	
1963 13A	TELSTAR 2	US	7 MAY	225.2	42.75	10801	975	
1963 13B	ROCKET BODY	US	7 MAY	225.0	42.85	10779	980	
1963 14A		US	9 MAY	166.5	87.39	3728	3561	136.892
1963 14B		US	9 MAY	166.5	87.35	3684	3607	136.410
1963 14C		US	9 MAY	166.5	87.34	3680	3610	
1963 14D		US	9 MAY	166.5	87.42	3678	3610	
1963 14E		US	9 MAY	166.1	87.36	3662	3598	
1963 17A		USSR	22 MAY	94.6	49.00	756	250	
1963 17B		USSR	22 MAY	91.3	48.99	428	258	
1963 17C		USSR	22 MAY	96.1	49.22	809	339	
1963 17D		USSR	22 MAY	91.8	49.07	462	275	
1963 17F		USSR	22 MAY	95.6	49.32	779	322	

<u>OBJECT</u>	<u>OBJECTS IN ORBIT</u>					<u>PERIGEE</u>		<u>TRANSMITTING</u>	
	<u>CODE NAME</u>	<u>SOURCE</u>	<u>LAUNCH</u>	<u>NODAL PERIOD</u>	<u>INCLINATION</u>	<u>Km.</u>	<u>Km.</u>	<u>FREQ.</u>	<u>(MC/S)</u>
1963 LAUNCHES									
1963 17G		USSR	22 MAY	94.4	48.96	256			
1963 21A		US	15 JUN	90.6	69.86	157			
1963 21C	SOLAR RADIATION	US	15 JUN	87.9	69.86	150		136.890	
1963 22A		US	16 JUN	99.8	90.02	731		150;400	
1963 22B		US	16 JUN	99.8	90.02	726			
1963 22C		US	16 JUN	101.3	90.25	745			
1963 22D		US	16 JUN	98.2	89.81	567			
1963 24A	TIROS 7	US	19 JUN	97.4	58.21	615		136.235;136.922	
1963 24B	ROCKET BODY	US	19 JUN	97.4	58.21	614			
1963 24C	METAL OBJECT	US	19 JUN	97.9	58.36	629			
1963 24D	METAL OBJECT	US	19 JUN	96.9	58.09	576			
1963 25B		US	27 JUN	132.6	82.14	331			
1963 26A	RESEARCH SATELLITE FOR GEOPHYSICS	US	28 JUN	102.1	49.74	421			
1963 27A		US	29 JUN	94.8	82.32	491			
1963 27B		US	29 JUN	94.7	82.31	496			
1963 29A		US	18 JUL	89.9	82.85	193			
1963 30A		US	18 JUL	167.9	88.40	3667			
1963 30B		US	18 JUL						
1963 30D		US	18 JUL	168.0	88.41	3662		136.980;136.470	
1963 31A	SYNCOM 2	US	26 JUL	1454.1	33.05	35584		1814.069;1815.794	
1963 31B	ROCKET BODY	US	26 JUL	638.1	33.13	141			
1963 32A		US	31 JUL	90.6	74.92	152			

* APHELION PERIHELION IN ASTRONOMICAL UNITS, INCLINATION TO ECLIPTIC.

** ONE HUNDRED AND EIGHTY FOUR METAL OBJECTS HAVE BEEN IDENTIFIED AS HAVING BEEN LAUNCHED WITH 1961 OMICRON 1 AND 1961 OMICRON 2. OBJECTS OF THIS SERIES THAT HAVE DECAYED CAN BE FOUND IN THE DECAYED OBJECTS LISTS.

§ TRANSMITTING ON COMMAND ONLY.
& TRANSMITTING WHEN IN SUNLIGHT ONLY.

PLEASE ADD THE FOLLOWING TO THE DECAYED OBJECTS LIST

<u>OBJECT</u>	<u>CODE NAME</u>	<u>SOURCE</u>	<u>LAUNCH</u>	<u>DECAY</u>
1963 17E		USSR	22 MAY	25 JUL 63
1963 21B	LOFTI 2A	US	15 JUN	18 JUL 63
1963 21D		US	15 JUN	30 JUL 63
1963 21E		US	15 JUN	27 JUL 63
1963 25A		US	27 JUN	26 JUL 63
1963 28A		US	12 JUL	18 JUL 63
1963 28C		US	12 JUL	16 JUL 63